



MATERIAL SAFETY DATA SHEET

GRAM IODINE
CAROLINA BIOLOGICAL SUPPLY COMPANY

Revised: 09/05/00
Replaces: None
Printed: 23/08/00

1. PRODUCT DESCRIPTION

Product Name: Gram Iodine
Product Code(s): 82-1050, 86-5861, 86-5863, 86-5865, 89-2301,
89-2305, 15-4708A, 15-4708CA, 15-4724A, 15-4718,
15-4715, B6104G
Size: Various
Chemical Name: Product is mixture
CAS Number: see section 2
Formula: See section 2
Synonyms: None
Distributor: Carolina Biological Supply Company
2700 York Road
Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec (Transportation Spill Response 24 hours): 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Principle Hazardous Components:
Potassium Iodide (CAS# 7681-11-0) 0.67%
Iodine (CAS#7553-56-2) 0.33%
TLV and PEL units:
Potassium Iodide- No information available
Iodine- ACGIH-TLV: Ceiling 0.1 ppm (TWA), Ceiling 1.0 mg/m3
OSHA-PEL: Ceiling 0.1 ppm (TWA)

3. HAZARD IDENTIFICATION

Emergency Overview: May be harmful if swallowed. Contact and Health hazard.

Potential Health Effects:

Eyes: May cause irritation.

Skin: May cause irritation.

Ingestion: May cause gastrointestinal discomfort.

Inhalation: May cause irritation to respiratory tract.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes - Flush with water for at least 15 minutes, raising and lowering eyelids occasionally. Get medical attention if irritation persists.

Skin - Thoroughly wash exposed area for at least 15 minutes. Remove contaminated clothing. Launder contaminated clothing before reuse.

Get medical attention if irritation persists.

Ingestion - If swallowed, if conscious, give plenty of water.

Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - Remove to fresh air. Give oxygen if breathing is difficult; give artificial respiration if breathing has stopped. Keep person warm, quiet, and get medical attention.

5. FIREFIGHTING PROCEDURES

Flash Point (Method Used): No information available

NFPA Rating: None established

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Extinguisher Media:

Use media suitable to extinguish surrounding fire.

Flammable Limits in Air % by Volume: No information available

Autoignition Temperature: No information available

Special Firefighting Procedures:

Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Excessive temperatures may emit toxic and corrosive fumes of iodine.

6. SPILL OR LEAK PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of spill. Eliminate all sources of ignition.

Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

7. SPECIAL PRECAUTIONS

Precautions to be Taken in Handling or Storing: Store tightly closed in a cool, dry, well ventilated area away from incompatible materials.

8. SPECIAL PROTECTION INFORMATION

Respiratory Protection(Specify Type):

A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust:	Yes
Mechanical(General):	Yes
Special:	No
Other:	No

Protective Gloves:

Rubber, neoprene, PVC, or equivalent.

Eye Protection:

Splash proof chemical safety goggles should be worn at all times.

Other Protective Clothing or Equipment:

Lab coat, eyewash, and safety shower.

9. PHYSICAL DATA

Molecular Weight: No information available

Melting Point: No information available

Boiling Point: 100 C

Vapor Pressure: 17.535 @ 20 C

Vapor Density(Air=1): No information available

Specific Gravity(H₂O=1): 1.0

Percent Volatile by Volume: 99%

Evaporation Rate(H₂O=1): 1

Solubility in Water: Complete product is an aqueous solution

Appearance and Odor: Deep amber liquid with slight

characteristic

odor of iodine.

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10. REACTIVITY DATA

Stability: Stable
Conditions to Avoid: High temperatures or excessive heat
Incompatibility (Materials to Avoid): Contact with ammonia fumes may cause formation of explosive nitroiodide
Hazardous Decomposition Products: Free Iodine
Hazardous Polymerization: Will not occur

11. TOXICITY DATA

Toxicity Data: This mixture has not been thoroughly evaluated. Data is listed for individual components.
Potassium Iodide-LDLo(ipr-mouse)-1117 mg/kg, LD50(orl-rat)- 1862 mg/kg
Iodine- LCLo(ihl-rat)-800 mg/m³/1H, LD50(orl-rat)-14 g/kg
Effects of Overexposure:
Acute: See section 3
Chronic: No listed as causing cancer by IARC, NTP, or OSHA
Conditions Aggravated by Overexposure: Eyes, skin, nose and throat.
Target Organs: No information available
Primary Route(s) of Entry: None

12. ECOLOGICAL DATA

EPA Waste Numbers: None

13. DISPOSAL INFORMATION

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations.
Always contact a permitted waste disposer (TSD) to assure compliance.

14. TRANSPORT INFORMATION

Non-regulated

15. REGULATORY INFORMATION

EPA TSCA Status: On TSCA Inventory
Hazard Category for SARA Section 311/312 Reporting: Acute

Product or Components	SARA EHS Sec. 302 TPQ	SARA Sec. 313 Chemicals		CERCLA Sec. 103 RQ lbs.	RCRA Sec.
		Name	Chemical List Category		
261.33					

Potassium Iodide	No	No	No	No	No
Iodine	No	No	No	No	No

16. ADDITIONAL INFORMATION

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer

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must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH.....American Conference of Governmental Industrial Hygienists
CAS Number..Chemical Services Abstract Number
CERCLA.....Comprehensive Environmental Response, Compensation, and Liability Act
DOT.....U.S. Department of Transportation
IARC.....International Agency of Research on Cancer
N/A.....Not Available
NTP.....National Toxicology Program
OSHA.....Occupational Safety and Health Administration
PEL.....Permissible Exposure Limit
ppm.....parts per million
RCRA.....Resource Conservation and Recovery Act
SARA.....Superfund Amendments and Reauthorization Act
TLV.....Threshold Limit Value
TSCA.....Toxic Substances Control Act